Tim Peter
Return to Ray RLS

# MONITOR WELL PRE-SPUD PROPOSAL

1) WELL NAME/NUMBER: BLM-27

2) PROPOSED LOCATION: (a) General (on or off-site) Off-site

(attach map Site Area BLM Land

(b) Sect 34 Twnshp 20S Rng 3E NE ¼ NE ¼ SW ¼ SE ¼

3) WELL PARAMETERS:

(a) Est. total depth 350 (ft)* (b) Est. ground elevation @4730 ft

(c) Anticipated stratigraphy:

Alluvium (Santa Fe Group) from 0 ' to 250 ' (depth)

Andesite (possibly Tuff) from 250 ' to TD ' (depth)

(d) Anticipated water bearing horizon(s):

Alluvium (?) at 245 ' (depth)

_____ at _____ ' (depth)

(e) Anticipated static water level 232 ' (depth)

4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):

To assess groundwater quality, determine the presence or absence of saturated alluvium, and determine bedrock lithology.

5) PROPOSED DRILLING PARAMETERS:

(a) Drilling method(s): (air/foam/mud rotary/auger/etc.)

Mud Rotary from 0 ' to 100 ' (max)

Air-Foam Rotary from 100 ' to TD ' (depth)

Air-foam method: "Quik-Foam" surfactant/water mixture used in conjunction with filtered compress air.

Mud-rotary method: Bentonite mud/water mixture.

* or 250' into bedrock

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(b) Lithology sampling - collect sample every:

5' intervals Method Grab from 0 ' to TD ' (depth)
Core type 6" Dennison from ' to ' (depth)
2" Christiansen from ' to ' (depth)

(c) Anticipated drilling additive(s): E-Z mud (if needed)

7) PROPOSED WELL COMPLETION DESIGN/MATERIALS

| (a) Casing: | Material | Diameter | From | To | Comments |
|---|---|---|---|---|---|
| Temporary | | | | | |
| Surface | | 10" | 0 | 100' max | |
| Screen (10') | Stainless ++ | 4" | To be determined from Geophysical logs | | 0.02" |
| Completion Pipe | stainless + | 4" | 0 | TD | * |

Standard material: Blank riser, silt trap, locking cap

N/A Data not available at this time
* for deep completions (450 feet or more)
** for shallow completions
\+ Type 304, Schedule 5 stainless steel
Type 304, Schedule 10 stainless steel
++ Regular strength screen, extra strength screen used below 450 feet

(b) Filter pack: Standard 8/20 and 16/40 sand and bentonite plug(s), grout to surface.

8) PROPOSED WELL DEVELOPMENT

(a) Surge and bail with surge block and bailer.

(b) Pump with submersible pump until parameters stabilize.

9) WELL AUTHORIZATION

(a) Proposed by Geoscience Consultants, Ltd.

(b) Authorized Robert Mitchell (name) NASA (representing) Robert E. Mitchell (signature)